

PROJECT NOTES  
GENERAL

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION 2011 STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION AND ITS LATEST REVISIONS AND THE 6TH EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATION AND ITS LATEST REVISIONS.
2. THE CONTRACTOR SHALL ENSURE ACCESS TO ALL DRIVES AND SIDE ROADS AT ALL TIMES DURING CONSTRUCTION.
3. ALL DIMENSIONS SHOWN IN THE PLANS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68°F.
4. IN-STREAM CONSTRUCTION SHALL OCCUR ONLY WITHIN THE TIMEFRAME SPECIFIED IN THE PROJECT PERMITS INCLUDED IN THE CONTRACT DOCUMENTS. IF THE CONTRACTOR PROPOSES TO PERFORM IN STREAM WORK OUTSIDE OF THESE TIMEFRAMES, THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE APPROPRIATE REGULATING ENTITIES PRIOR TO PERFORMING THE WORK.

PRECAST CONCRETE BOX CULVERTS AND WINGWALLS

1. THE BOX CULVERT INCLUDING SILLS, HEADWALLS, CUT-OFF WALLS, AND WINGWALLS WILL BE PAID FOR UNDER THE APPROPRIATE SECTION 540 CONTRACT ITEM.
2. THE BOX CULVERT INCLUDING THE SILLS, HEADWALLS AND WINGWALL STEMS SHALL BE PRECAST. THE CUT-OFF-WALL AND WINGWALL FOOTINGS MAY BE EITHER PRECAST OR CAST IN PLACE. THE DESIGN OF THESE CULVERTS SHALL BE THE RESPONSIBILITY OF THE FABRICATOR. CULVERT SHALL BE DESIGNED FOR AN HL-93 LIVE LOAD. CAST-IN-PLACE CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 501 FOR CONCRETE, HIGH PERFORMANCE CLASS B. THE BOTTOM OF WINGWALL FOOTINGS SHALL BE AT THE ELEVATIONS SHOWN IN THE PLANS. CUT-OFF WALLS BELOW WINGWALL FOOTINGS WILL NOT BE ALLOWED.
3. THE CONTRACTOR SHALL SUBMIT FABRICATION DRAWINGS FOR THE BOX CULVERTS AND ALL ASSOCIATED DETAILS IN ACCORDANCE WITH SUBSECTION 105.03.
4. THE BOX CULVERT TYPICAL SECTIONS SHOWN IN THE DRAWINGS ARE FOR SCHEMATIC PURPOSES ONLY. THE ACTUAL SHAPE OF THE BOX CULVERT AND ITS COMPONENTS WILL BE DEPENDENT ON THE FABRICATOR.
5. ALL BOX CULVERT JOINTS SHALL BE STRENGTHENED WITH PERMANENT CLOSURE HARDWARE. ALL HARDWARE COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH SUBSECTION 726.08.
6. ALL REINFORCING TO BE LEVEL 1 (UNCOATED).
7. AFTER BOX CULVERT SECTIONS HAVE BEEN SET IN THEIR FINAL POSITION, THE EXTERIOR (TOP AND SIDES) AND INTERIOR (SIDES AND BOTTOM) OF ALL BOX CULVERT JOINTS, AND ALL LIFTING HOLES, SHALL BE GROUTED WITH MORTAR, TYPE IV. PRIOR TO THE APPLICATION OF ANY WATERPROOFING, ALL MORTAR SHALL BE WET CURED A MINIMUM OF 12 HOURS OR UNTIL THE COMPRESSIVE STRENGTH HAS REACHED 2000 psi. APPROVED CURING COMPOUNDS MAY BE USED ON INTERIOR SURFACES IN LIEU OF WET CURING.
8. A TWO FOOT WIDE STRIP OF SHEET MEMBRANE WATERPROOFING SHALL BE APPLIED AT EACH SIDE JOINT IN ACCORDANCE WITH SUBSECTION 540.10. THE MEMBRANE SHALL BE CENTERED ON THE JOINT AND SHALL RUN THE ENTIRE HEIGHT OF THE JOINT. THE ENTIRE TOP OF THE BOX CULVERT SHALL THEN BE COVERED WITH TORCH APPLIED MEMBRANE. TORCH APPLIED MEMBRANE WILL BE PAID SEPARATELY UNDER CONTRACT ITEM 519.20. THE MEMBRANE SHEETS SHALL OVERLAP THE EDGES OF THE CULVERT BY ONE FOOT ON EACH SIDE AS SHOWN IN THE PLANS.
9. WATER REPELLENT IN ACCORDANCE WITH ITEM 514.10 SHALL BE APPLIED TO ALL EXPOSED SURFACES EXCEPT THE INSIDE OF THE BOX.

SIMULATED STREAM BED

1. BED MATERIAL TO BE PLACED IN THE RECONSTRUCTED CHANNEL AND BOX CULVERT IS INTENDED TO MIMIC THE NATIVE CHANNEL. THE MATERIAL SHALL BE STONE FILL TYPE II SUPPLEMENTED WITH THE TAILINGS OF A TOPSOIL SCREENING OPERATION WITH GRADATION ADJUSTED TO CONFORM TO THE FOLLOWING TABLE:

STONE/SIEVE SIZE	% FINER, BY WEIGHT
36"	100
12"	30-85
#4	4-30
#200	4-12

2. INSTALLATION OF THE BED MATERIAL MAY REQUIRE INDIVIDUAL PLACEMENT OF LARGE STONES AT SPECIFIC LOCATIONS, AS DIRECTED BY THE ENGINEER. THE BED MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER AND THE AGENCY OF NATURAL RESOURCES STREAM ALTERATION ENGINEER, AND WILL BE IN ACCORDANCE WITH ITEM 900.608, SPECIAL PROVISION (STONE FILL, CULVERT LINING).

UTILITY COORDINATION

1. SEE THE LAYOUT SHEETS AND UTILITY SPECIAL PROVISIONS FOR INFORMATION AND REQUIREMENTS RELATED TO UTILITY COORDINATION.

TRAFFIC CONTROL

1. THE TRAFFIC CONTROL PLANS ARE SCHEMATIC ONLY AND SHOULD BE USED AS A REFERENCE. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A SITE SPECIFIC TRAFFIC CONTROL PLAN FOR ONE LANE CLOSURES PER THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE CONTRACTOR SHALL ALLOW THE ENGINEER 14 CALENDAR DAYS TO REVIEW AND ACCEPT THE PROPOSED PLANS BEFORE THEY ARE TO BE IMPLEMENTED. NO WORK SHALL COMMENCE UNTIL THE TRAFFIC CONTROL PLAN HAS BEEN APPROVED. DEVELOPMENT AND IMPLEMENTATION OF TRAFFIC CONTROL PLAN SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL SECTION 900.
2. SIGNS SHALL BE INSTALLED SO AS NOT TO OBSTRUCT EXISTING SIGNS OR CORNER SIGHT DISTANCE FROM HIGHWAYS OR DRIVES.
3. ALL SIGNS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION (FHWA).
4. ORANGE SOLID SUBSTRATE CONSTRUCTION SIGNS SHALL HAVE RETROREFLECTIVE SHEETING EQUAL TO OR EXCEEDING "AMERICAN SOCIETY FOR TESTING AND MATERIALS" (ASTM) D 4956 TYPE VII, VIII OR IX REQUIREMENTS, UNLESS OTHERWISE NOTED.
5. ROLL UP SIGNS SHALL HAVE RETROREFLECTIVE SHEETING EQUAL TO OR EXCEEDING ASTM D 4956 TYPE VI.
6. SIGNS SHALL BE ERECTED BEFORE THE START OF ANY WORK AND SHALL BE COVERED UNTIL WORK COMMENCES, DURING PERIODS OF INACTIVITY OR UPON COMPLETION OF THE WORK. EACH SIGN SHALL BE ERECTED IN A NEAT AND WORKMANLIKE MANNER. SIGNS SHALL BE REMOVED UPON COMPLETION OF THE WORK AT THE DISCRETION OF THE ENGINEER.
7. FIXED SIGNS SHALL BE IN COMPLIANCE WITH VAOT CONSTRUCTION STANDARD E-121.
8. PORTABLE SIGNS SHALL BE PLACED ON THE EDGE OF ROADWAY AT A ONE FOOT MINIMUM ABOVE TRAVELED WAY. ALL VEGETATION THAT INTERFERES WITH VISIBILITY OF THE SIGNS SHALL BE REMOVED. WHEN PLACED BEHIND GUARDRAIL, THE BOTTOM OF THE SIGN FACE SHALL BE ABOVE THE TOP OF THE GUARDRAIL.
9. WHERE SIGN INSTALLATIONS ARE NOT PROTECTED BY GUARDRAIL OR OTHER APPROVED TRAFFIC BARRIERS, ALL SIGN STANDS AND POST INSTALLATIONS SHALL BE "NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM" (NCHRP) REPORT 350 COMPLIANT. NO SIGN POSTS SHALL EXTEND OVER THE TOP OF THE SIGN INSTALLED ON SAID POST(S). WHEN ANCHORS ARE INSTALLED, STUB SHALL NOT BE GREATER THAN FOUR INCHES ABOVE EXISTING GROUND.
10. THE NUMBER OF CHANNELIZING DEVICES AND OTHER TRAFFIC CONTROL DEVICES SHOWN ON THE TRAFFIC CONTROL PLANS ARE FOR ILLUSTRATIVE PURPOSES ONLY. THE ACTUAL NUMBER REQUIRED IS TO BE DETERMINED BASED ON INDIVIDUAL DETOUR CONDITIONS (TAPERS, SPEED LIMITS, LENGTH OF DETOUR, CURVE, ETC.).
11. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE USED AT THE DISCRETION OF THE ENGINEER AND IN ACCORDANCE WITH SECTION 6F.60 OF THE MUTCD.
12. TRAVEL LANES SHALL BE A MINIMUM OF 12 FEET WIDE WITH 1 FOOT MINIMUM WIDTH SHOULDERS.
13. THE CONTRACTOR SHALL SHIFT TRAFFIC IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. ALL EQUIPMENT SHALL BE MOVED TO A LOCATION OUTSIDE OF THE CONSTRUCTION CLEAR ZONE (15') DURING NON-WORK PERIODS IF POSSIBLE. IF NOT POSSIBLE, EQUIPMENT SHALL BE OFF ROADWAY AND MARKED WITH CHANNELIZING DEVICES.

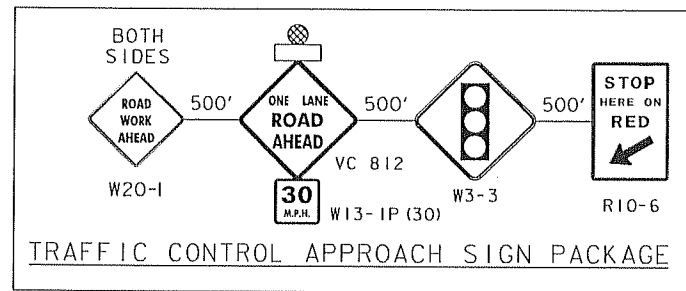
TEMPORARY TRAFFIC SIGNALS:

1. TEMPORARY TRAFFIC SIGNAL SYSTEM SHALL BE PAID AS PART OF ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL ALL-INCLUSIVE)
2. DESIGN OF THE SIGNAL SUPPORTS AND ANY REQUIRED GUYING IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. SIGNAL PHASING/TIMING ADJUSTMENTS REQUESTED BY THE ENGINEER SHALL BE ACCOMPLISHED WITHIN A 48 HOUR PERIOD.
4. SIGNAL FACES SHALL BE LED AND CONSIST OF 12" LENSES. (RED, YELLOW, AND GREEN)
5. THE BOTTOM OF THE HOUSING OF A SIGNAL FACE SUSPENDED OVER A ROADWAY SHALL NOT BE LESS THAN 16.5 FEET NOR MORE THAN 19 FEET ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY. THE BOTTOM OF A SIGNAL FACE NOT MOUNTED OVER A ROADWAY SHALL NOT BE LESS THAN 8 FEET NOR MORE THAN 15 FEET ABOVE THE GROUND. CAUTION SHOULD BE USED TO ENSURE COMPLIANCE WITH THE HEIGHT REQUIREMENTS IN THE EVENT THE NEW APPROACH GRADES DIFFER SIGNIFICANTLY FROM THE OLD ROAD GRADE.
6. SIGNAL FACES FOR ANY ONE APPROACH SHALL NOT BE LESS THAN 8 FEET APART MEASURED HORIZONTALLY BETWEEN CENTER FACES.
7. SIGNAL HEADS MAY BE HUNG ON A SPAN WIRE OR ON A CANTILEVER MAST ARM. HOWEVER, THE USE OF PORTABLE SIGNALS IS ENCOURAGED. AT LEAST ONE SIGNAL HEAD SHALL BE UNMISTAKABLY IN LINE WITH THE CENTER OF APPROACHING TRAFFIC AT ALL TIMES. THE SECOND SIGNAL HEAD MAY BE POST MOUNTED, LOCATED AT A DISTANCE OF NO GREATER THAN 14.5 FEET FROM THE CENTER OF THE APPROACH LANE WHEN THE STOP BAR IS 40 FEET FROM THE SIGNAL HEAD. CONSULT THE CURRENT EDITION OF THE MUTCD FOR ADDITIONAL INFORMATION CONCERNING SIGNAL PLACEMENT.
8. SIGNAL HEAD PLACEMENT IS CRITICAL. HEADS SHALL BE ADJUSTED TO REFLECT LANE LOCATION CHANGES.
9. THE SIGNAL SYSTEM SHALL CONSIST OF POLES, SIGNS AND POSTS, WARNING SIGNS, LUMINAIRES, FLASHING BEACONS, ASSOCIATED PAVEMENT MARKINGS, AND SIGNAL EQUIPMENT TO PROVIDE FOR AN ADEQUATE DESIGN. IT ALSO INCLUDES PERMITS AND COSTS ASSOCIATED WITH PROVIDING ELECTRICAL POWER.
10. INSTALL WIRING BETWEEN SIGNAL POLES TO PROVIDE FOR A SAFE INSTALLATION. ATTACHMENT TO UTILITY POLES TO BE COORDINATED BY THE CONTRACTOR WITH THE UTILITY COMPANY.
11. PLACE TEMPORARY POLES BEHIND GUARDRAIL OR OUTSIDE OF THE CLEAR ZONE.
12. POLES SUPPORTING SPAN WIRES AND/OR MAST ARMS SHALL BE ADEQUATELY BRACED OR GUYED AND SHALL NOT BE PLACED SO AS TO CREATE A HAZARD TO THE TRAVELING PUBLIC.
13. ALL TEMPORARY SIGNAL EQUIPMENT, SIGNS, ETC., SHALL BELONG TO THE CONTRACTOR AT THE END OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR REMOVAL INCLUDING ANY TEMPORARY PAVEMENT MARKINGS, UTILITY POLES, WIRES, ETC.
14. A 250 WATT MER/150 WATT HPS LUMINAIRE AND MAST ARM SHALL BE PROVIDED ON A POLE ON EACH APPROACH AT A MOUNTING HEIGHT OF 30 FEET ABOVE ROADWAY CENTERLINE. THE INTENT IS TO ILLUMINATE THE AREA AROUND THE SIGNAL HEADS AND STOP BAR FOR INCREASED VISIBILITY. THE ENGINEER SHALL DETERMINE THE ADEQUACY OF THE LIGHTING AND DIRECT CHANGES IF THE LIGHTING IS INSUFFICIENT.
15. SEE STD. E-121 FOR SIGN PLACEMENT. SEE STDS. E-171A AND E-172 FOR ADDITIONAL INFORMATION ON SIGNALS.
16. ALL ELECTRICAL WORK SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
17. ALL STOP SIGNS AND ANY TRAFFIC SIGNS MADE IRRELEVANT DUE TO THE TEMPORARY SIGNAL SHALL BE COMPLETELY COVERED DURING OPERATION OF THE TEMPORARY SIGNAL OR AT THE DISCRETION OF THE ENGINEER.
18. CONSTRUCTION APPROACH SIGNS SHALL BE PROVIDED ON EACH APPROACH PER THE "TRAFFIC CONTROL APPROACH SIGN PACKAGE" SHOWN ON THE TRAFFIC CONTROL PLAN SHEETS. ADDITIONAL CONSTRUCTION APPROACH SIGNS SHALL BE INSTALLED AS REQUIRED BY THE ENGINEER PER STANDARDS T-1, T-10 AND T-17.
19. THE SIGNAL SYSTEM SHALL UTILIZE VEHICLE DETECTION AND BE PROGRAMMED TO DWELL ON RED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING SIGNAL PHASING AND TIMING. THE CONTRACTOR SHALL SUBMIT A PHASING DIAGRAM TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL MAKE SIGNALS OPERATIONAL ONLY AFTER RECEIVING APPROVAL OF THE PHASING DIAGRAM BY THE ENGINEER.

PROJECT NAME: IRASBURG  
PROJECT NUMBER: STP CULV(30)

FILE NAME: zllc266frm.dgn	PLOT DATE: 10/21/2014
PROJECT LEADER: M. CHENETTE	DRAWN BY: L. BUXTON
DESIGNED BY: J. HUNGERFORD	CHECKED BY: M. CHENETTE
PROJECT NOTES	SHEET 4 OF 55



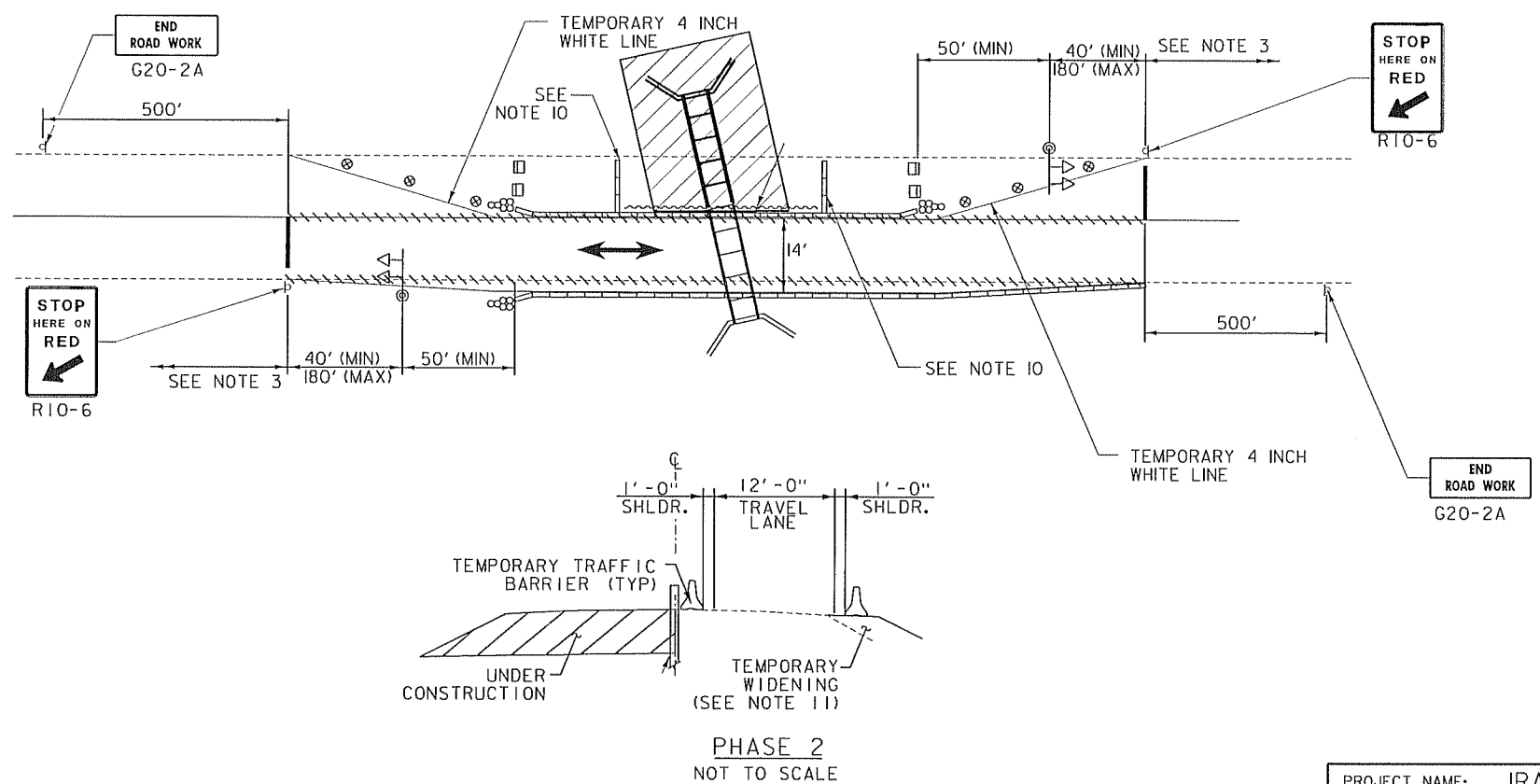
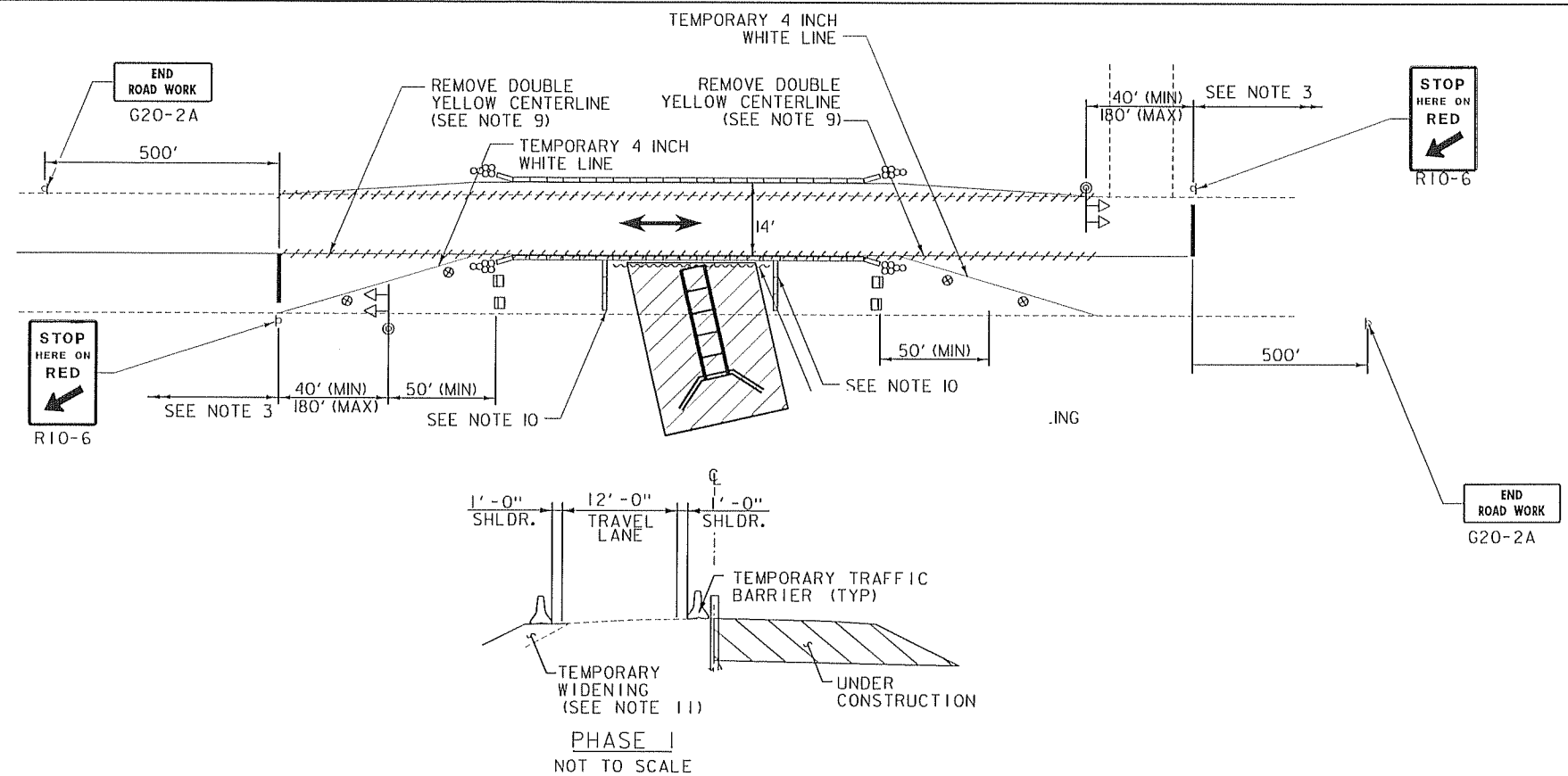


# NOTES:

- SEE SHEET 4 FOR GENERAL TRAFFIC CONTROL NOTES.
- REFER TO STANDARD T-10 FOR CONSTRUCTION APPROACH SIGNS CRITERIA.
- REFER TO "TRAFFIC CONTROL APPROACH SIGN PACKAGE" DETAIL THIS SHEET.
- CHANNELIZING DEVICE SPACING  
TANGENT SECTIONS: 60 FT. (2X DESIGN SPEED LIMIT)  
TAPER SECTIONS: 30 FT. (1X DESIGN SPEED LIMIT)  
DESIGN SPEED THROUGH CONSTRUCTION ZONE = 30MPH
- ACCESS TO ALL EXISTING SIDE ROADS, DRIVES, AND PARKING AREAS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- TRAFFIC CONTROL SHALL ALLOW FOR A WB-67 DESIGN VEHICLE.
- ATTENUATORS SHALL MEET THE POSTED SPEED OF 50 MPH.
- CHANNELIZING DEVICES LEFT OVERNIGHT SHALL BE DRUMS.
- REMOVED CENTERLINE TO BE REPLACED WITH DURABLE 4 INCH YELLOW LINE.
- TEMPORARY TRAFFIC BARRIER TO BE IN PLACE WHILE EXCAVATION IS OPEN AND WORK IS NOT ACTIVE OR AT THE DISCRETION OF THE ENGINEER.
- TEMPORARY WIDENING TO BE PAID FOR AS PART OF ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE)

## LEGEND

- UNDER CONSTRUCTION
- ALTERNATING ONE WAY TRAFFIC
- TEMPORARY TRAFFIC BARRIER
- CHANNELIZING DEVICE
- ENERGY ABSORPTION ATTENUATOR
- TYPE III BARRIER
- CONSTRUCTION SIGN
- TEMPORARY TRAFFIC SIGNAL
- FLASHING BEACON
- REMOVE OR MASK PAVEMENT MARKINGS

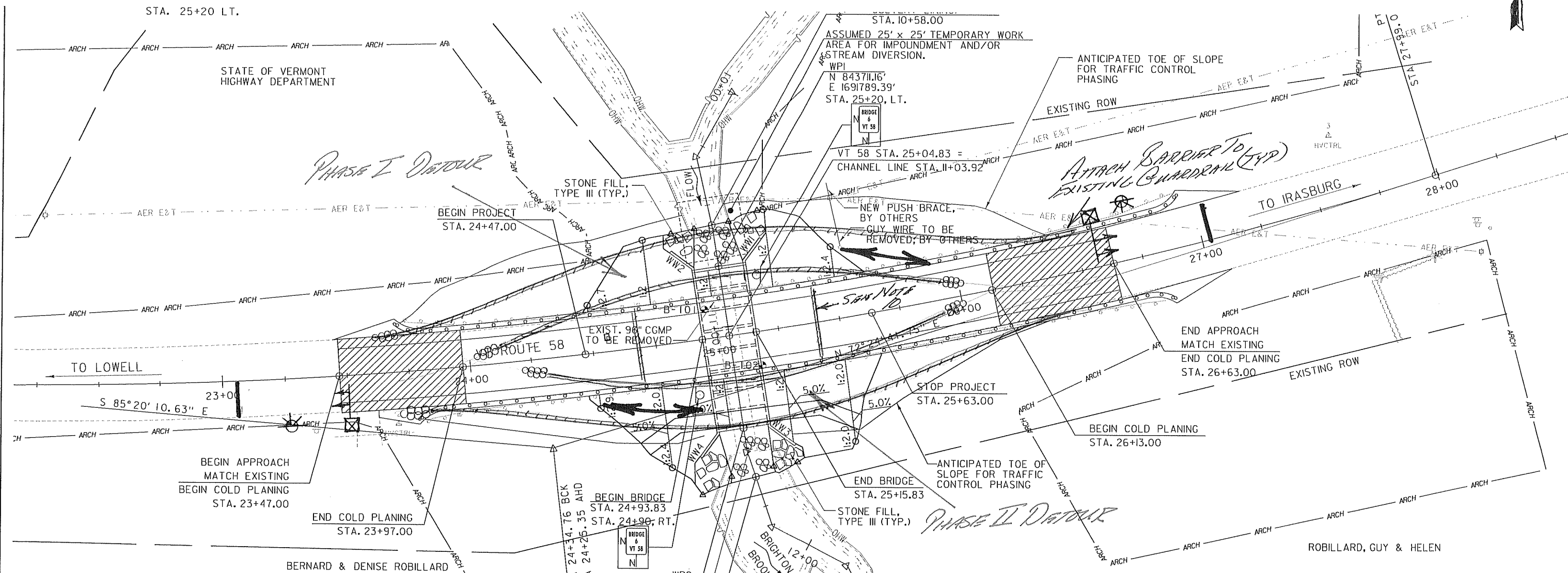


PROJECT NAME: IRASBURG  
PROJECT NUMBER: STP CULV(30)



FILE NAME: zllc266+c.dgn  
PROJECT LEADER: M. CHENETTE  
DESIGNED BY: I. MAYNARD  
TRAFFIC CONTROL PLAN - BR6

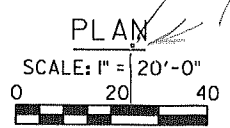
PLOT DATE: 9/26/2014  
DRAWN BY: L. BUXTON  
CHECKED BY: M. CHENETTE  
SHEET 18 OF 55





TRAFFIC SIGN SUMMARY

STATION	SIGN LEGEND	SIGN DIMENSIONS			NEW SIGNS		NEW SIGN POSTS							REMARKS	STD. SHEET NUMBER
							NO. OF POST S	SQAURE STEEL (in)			ANCHOR	SLEEVE			
		1.75	2.0	2.5											
					lb/ft										
		E	WIDTH (in)	HEIGHT (in)	"A"	"B"		1.88	2.42	3.35					
24+90, RT		I	6	8	0.33		I	X				X		VR-701	T-42
25+20, LT		I	6	8	0.33		I	X				X		VR-701	T-42
			TOTALS		SF	SF		FT							



- PORTABLE LIGHT TOWER
- STOP BAR
- CONCRETE BARRIER
- SAND BARREL
- ATTENUATOR
- TRAILER MOUNTED TRAFFIC SIGNAL

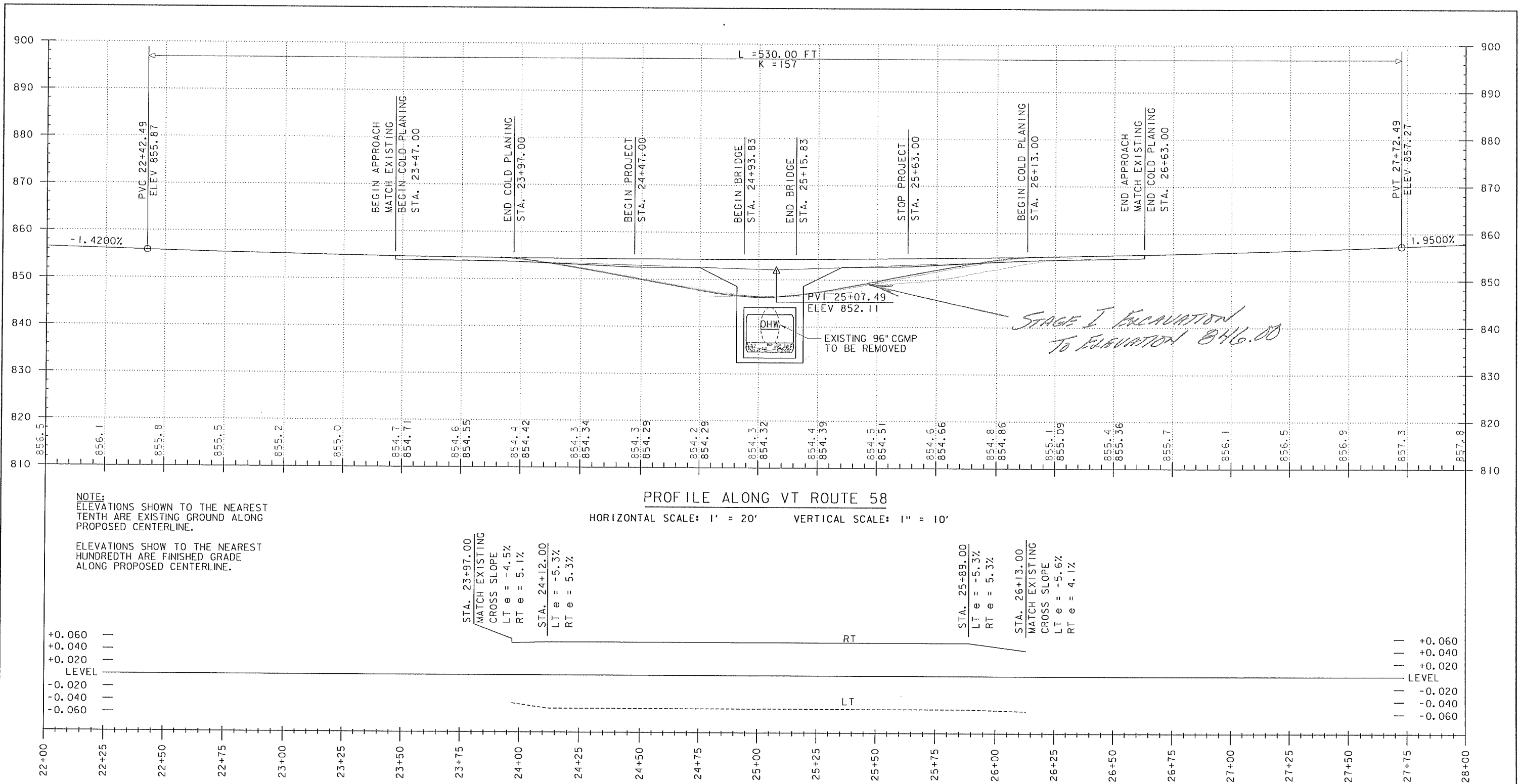
LEGEND

	STONE FILL, TYPE III
	SPECIAL PROVISION (STONE FILL, CULVERT LINING)

NOTES:  
1. GRADE IN ACCORDANCE WITH TYPICAL ROADWAY SECTION AND ROADWAY CROSS SECTIONS UNLESS NOTED OTHERWISE.

PROJECT NAME: IRASBURG  
PROJECT NUMBER: STP CULV(30)

SHEET 14 OF 55  
PLAN LAYOUT SHEET BRL6



PROFILE ALONG VT ROUTE 58  
HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 10'

BANKING DIAGRAM  
HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: N.T.S.

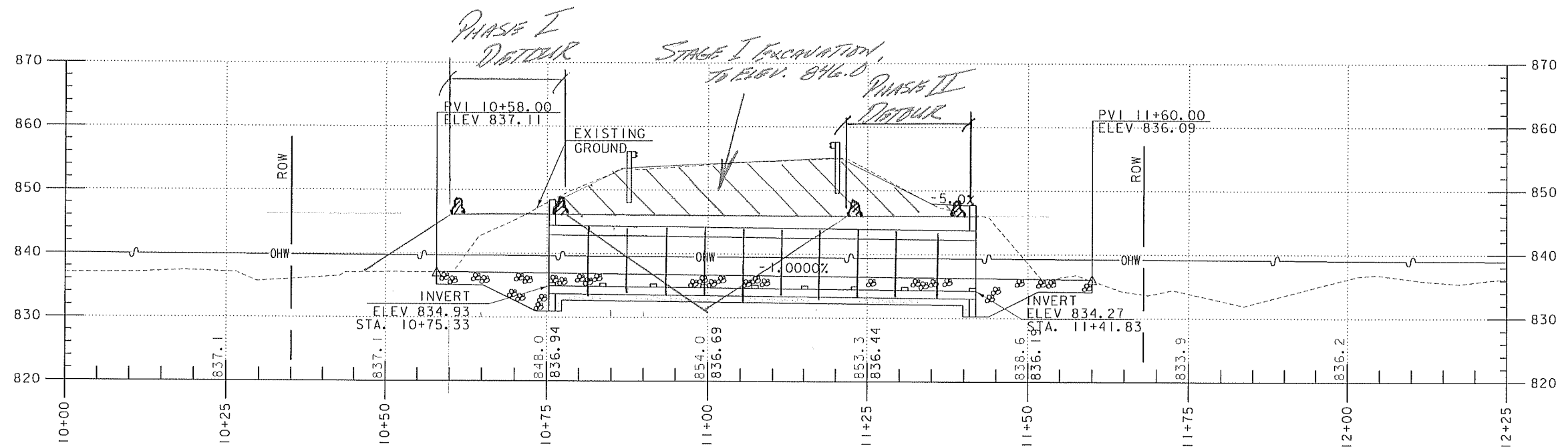
NOTE:  
STATIONING IN FEET AND  
SUPERELEVATIONS IN PERCENTAGES

PROJECT NAME: IRASBURG  
PROJECT NUMBER: STP CULV(30)

FILE NAME: zllc266pro.dgn  
PROJECT LEADER: M. CHENETTE  
DESIGNED BY: J. HUNGERFORD  
ROADWAY PROFILE - BR6

PLOT DATE: 9/26/2014  
DRAWN BY: L. BUXTON  
CHECKED BY: M. CHENETTE  
SHEET 15 OF 55

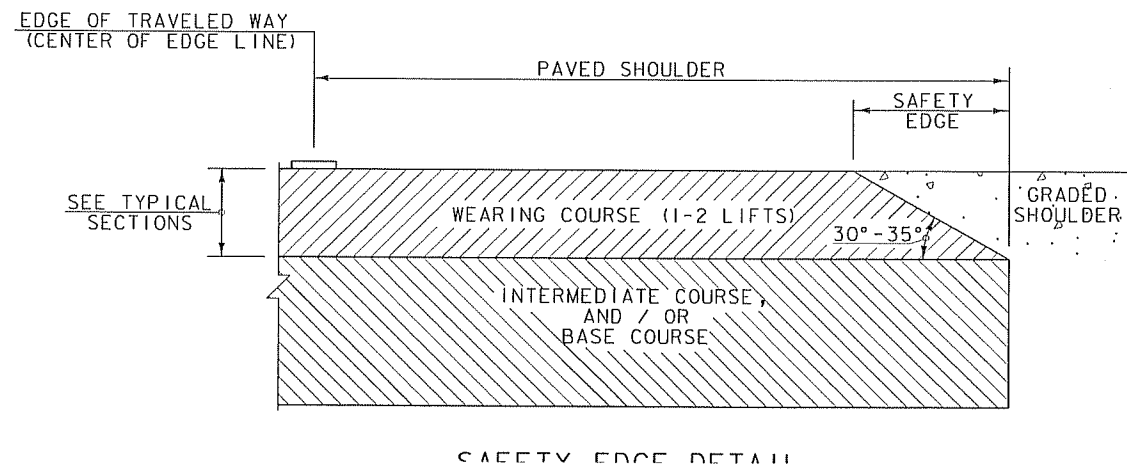
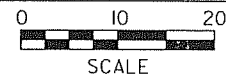




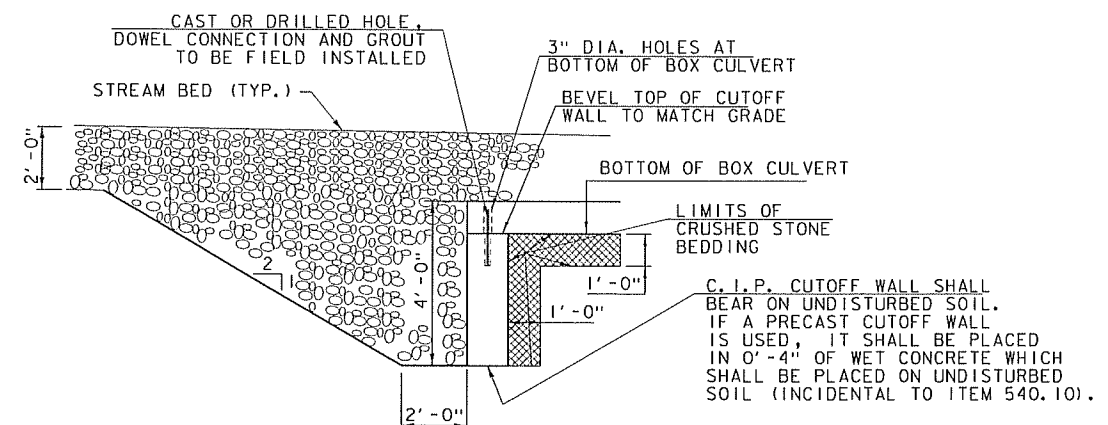
NOTE:  
 ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROPOSED CENTERLINE.

ELEVATIONS SHOW TO THE NEAREST HUNDREDTH ARE FINISHED GRADE ALONG PROPOSED CENTERLINE.

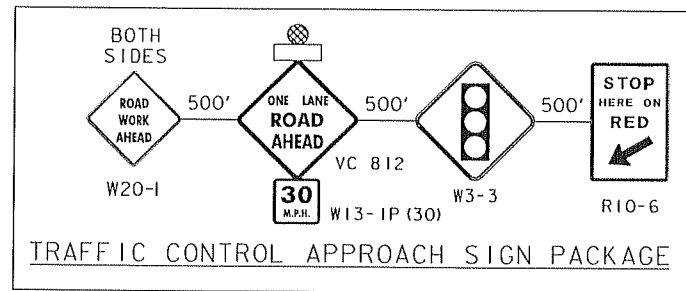
# STREAM PROFILE



SAFETY EDGE DETAIL



SHEET 16 of 55  
 STREAM PROFILE - B26

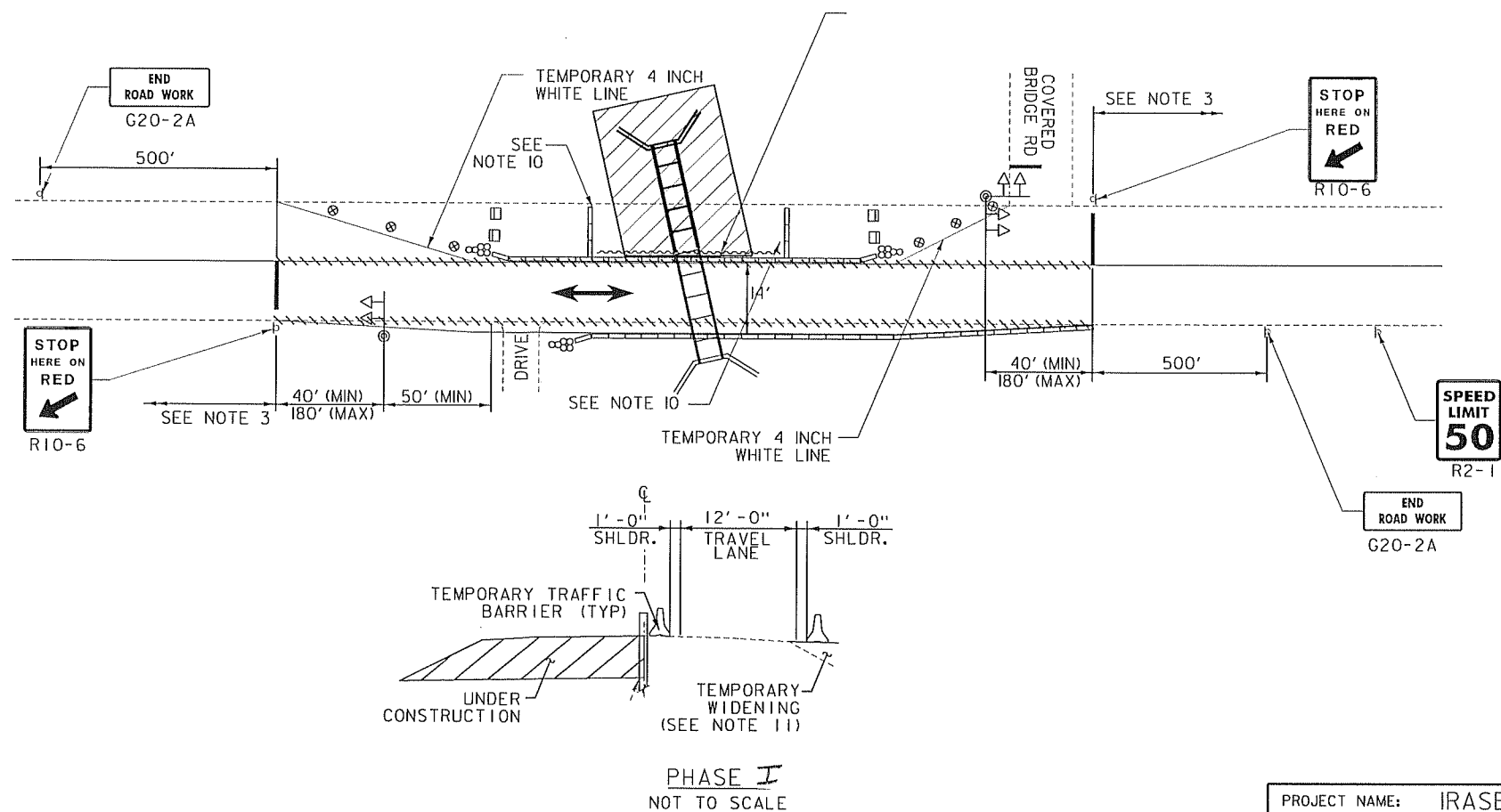
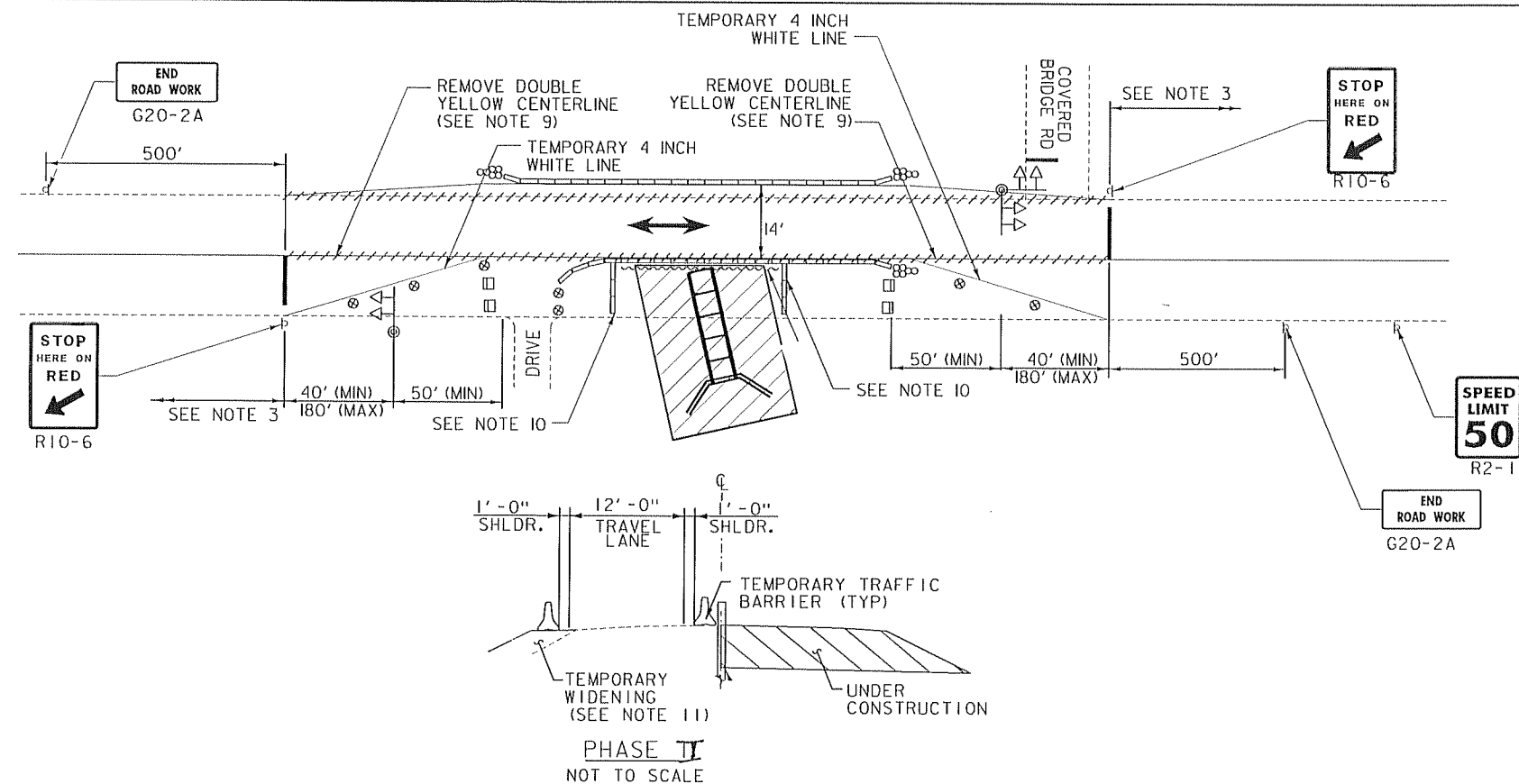


# NOTES:

- SEE SHEET 4 FOR GENERAL TRAFFIC CONTROL NOTES.
- REFER TO STANDARD T-10 FOR CONSTRUCTION APPROACH SIGNS CRITERIA.
- REFER TO "TRAFFIC CONTROL APPROACH SIGN PACKAGE" DETAIL THIS SHEET.
- CHANNELIZING DEVICE SPACING  
TANGENT SECTIONS: 60 FT. (2X DESIGN SPEED LIMIT)  
TAPER SECTIONS: 30 FT. (1X DESIGN SPEED LIMIT)  
DESIGN SPEED THROUGH CONSTRUCTION ZONE = 30MPH
- ACCESS TO ALL EXISTING SIDE ROADS, DRIVES, AND PARKING AREAS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- TRAFFIC CONTROL SHALL ALLOW FOR A WB-67 DESIGN VEHICLE.
- ATTENUATORS SHALL MEET THE POSTED SPEED OF 50 MPH.
- CHANNELIZING DEVICES LEFT OVERNIGHT SHALL BE DRUMS.
- REMOVED CENTERLINE TO BE REPLACED WITH DURABLE 4 INCH YELLOW LINE.
- TEMPORARY TRAFFIC BARRIER TO BE IN PLACE WHILE EXCAVATION IS OPEN AND WORK IS NOT ACTIVE OR AT THE DISCRETION OF THE ENGINEER.
- TEMPORARY WIDENING TO BE PAID FOR AS PART OF ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE)

## LEGEND

	UNDER CONSTRUCTION
	ALTERNATING ONE WAY TRAFFIC
	TEMPORARY TRAFFIC BARRIER
	CHANNELIZING DEVICE
	ENERGY ABSORPTION ATTENUATOR
	TYPE III BARRIER
	CONSTRUCTION SIGN
	TEMPORARY TRAFFIC SIGNAL
	FLASHING BEACON
	REMOVE OR MASK PAVEMENT MARKINGS



PROJECT NAME: IRASBURG  
PROJECT NUMBER: STP CULV(30)

FILE NAME: zllc266tc.dgn  
PROJECT LEADER: M. CHENETTE  
DESIGNED BY: I. MAYNARD  
TRAFFIC CONTROL PLAN - BR7

PLOT DATE: 9/26/2014  
DRAWN BY: L. BUXTON  
CHECKED BY: M. CHENETTE  
SHEET 39 OF 55





621.20 - STEEL BEAM GUARDRAIL, GALVANIZED  
STA. 33+11.03, LT. TO STA. 34+50.00, LT.  
STA. 34+41.44, RT. TO STA. 34+50.00, RT.  
STA. 35+50.00, LT. TO STA. 36+49.20, LT.  
STA. 35+50.00, RT. TO STA. 36+61.45, RT.

621.21 - HD STEEL BEAM GUARDRAIL, GALVANIZED  
STA. 34+50.0, LT. TO STA. 34+87.5, LT.  
STA. 34+50.0, RT. TO STA. 34+87.5, RT.  
STA. 35+12.5, LT. TO STA. 35+50.0, LT.  
STA. 35+12.5, RT. TO STA. 35+50.0, RT.

621.216 - HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED  
STA. 34+87.5, LT. TO STA. 35+12.5, LT.  
STA. 34+87.5, RT. TO STA. 35+12.5, RT.

621.60 - ANCHOR FOR STEEL BEAM RAIL  
STA. 33+11.03, LT.  
STA. 34+41.44, RT.  
STA. 36+49.20, LT.  
STA. 36+61.45, RT.

621.80 - REMOVAL AND DISPOSAL OF GUARDRAIL  
STA. 33+12.71, LT. TO STA. 36+05.57, LT.  
STA. 34+48.75, RT. TO STA. 35+86.30, RT.

675.20 - TRAFFIC SIGNS, TYPE A  
675.341 SQUARE TUBE SIGN POST AND ANCHOR  
STA. 34+81, RT.  
STA. 35+18 LT.

646.400- DURABLE 4 INCH WHITE LINE  
STA. 33+55.00, RT. TO STA. 36+47.00, RT.  
STA. 33+55.00, LT. TO STA. 36+47.00, LT.

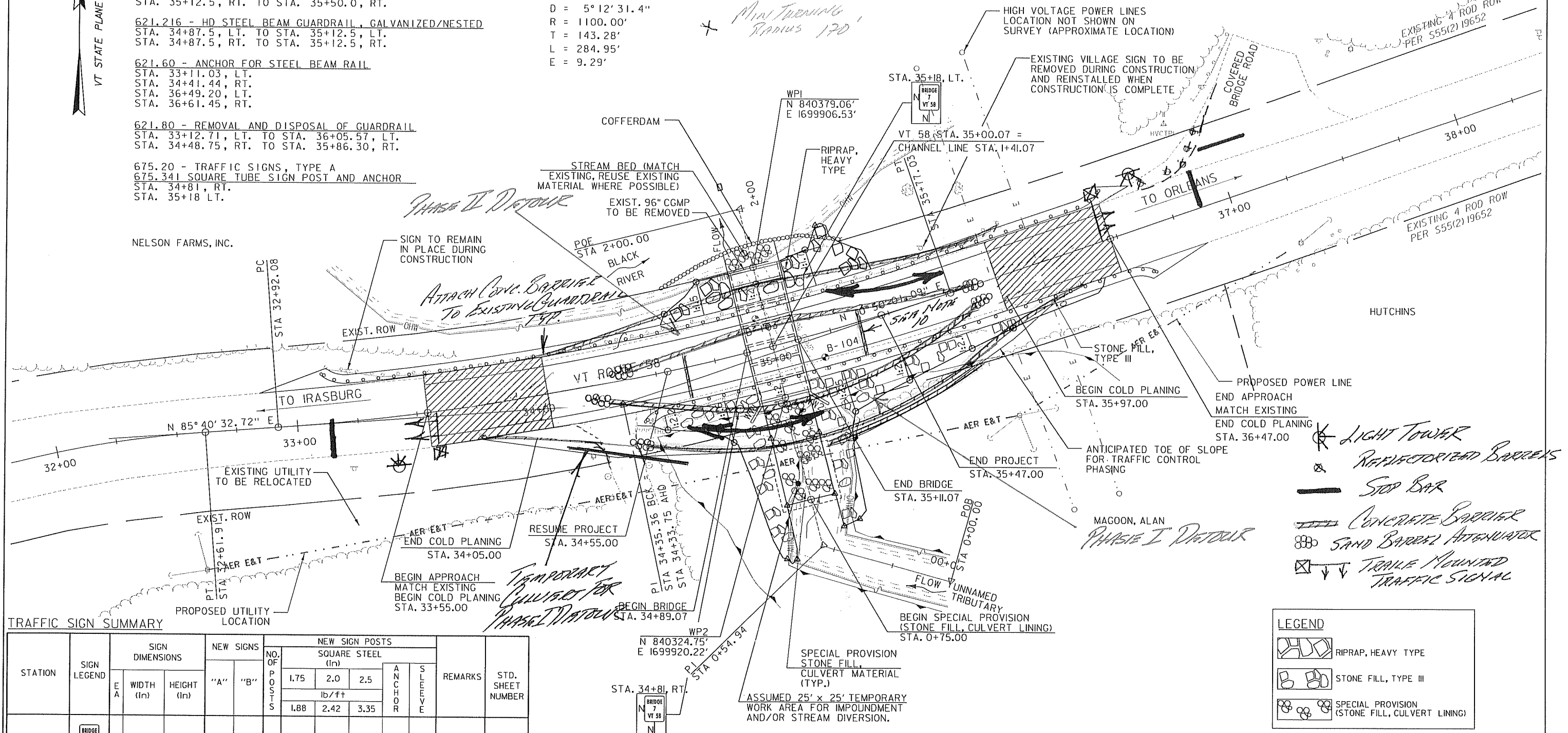
646.410- DURABLE 4 INCH YELLOW LINE  
STA. 33+55.00, CL. TO STA. 36+47.00, CL. (DYEL)

675.50 - REMOVING SIGNS  
STA. 33+22, LT.  
STA. 35+70, LT.



675.60 - ERECTING SALVAGED SIGNS  
STA. 33+22, LT.  
STA. 35+70, LT.

CURVE DATA  
DELTA = 14°50'31.6"  
D = 5°12'31.4"  
R = 1100.00'  
T = 143.28'  
L = 284.95'  
E = 9.29'

*Mini Training  
Radius 170'*



TRAFFIC SIGN SUMMARY

STATION	SIGN LEGEND	SIGN DIMENSIONS		NEW SIGNS		NEW SIGN POSTS						REMARKS	STD. SHEET NUMBER		
						NO. OF POSTS	SQUARE STEEL			ANCHOR	SLEEVE				
		(in)													
		1.75	2.0	2.5											
		lb/ft													
		E A	WIDTH (in)	HEIGHT (in)	"A"	"B"		1.88	2.42	3.35					
33+81, RT		I	6	8	0.33		I	X				X		VR-701	T-42
35+18, LT		I	6	8	0.33		I	X				X		VR-701	T-42
			TOTALS		SF	SF		FT							
					0.66			30							

PLAN

SCALE: 1" = 20'-0"  
0 20 40

LEGEND	
	RIPRAP, HEAVY TYPE
	STONE FILL, TYPE III
	SPECIAL PROVISION (STONE FILL, CULVERT LINING)

NOTES:  
1. GRADE IN ACCORDANCE WITH TYPICAL ROADWAY SECTION AND ROADWAY CROSS SECTIONS UNLESS NOTED OTHERWISE.

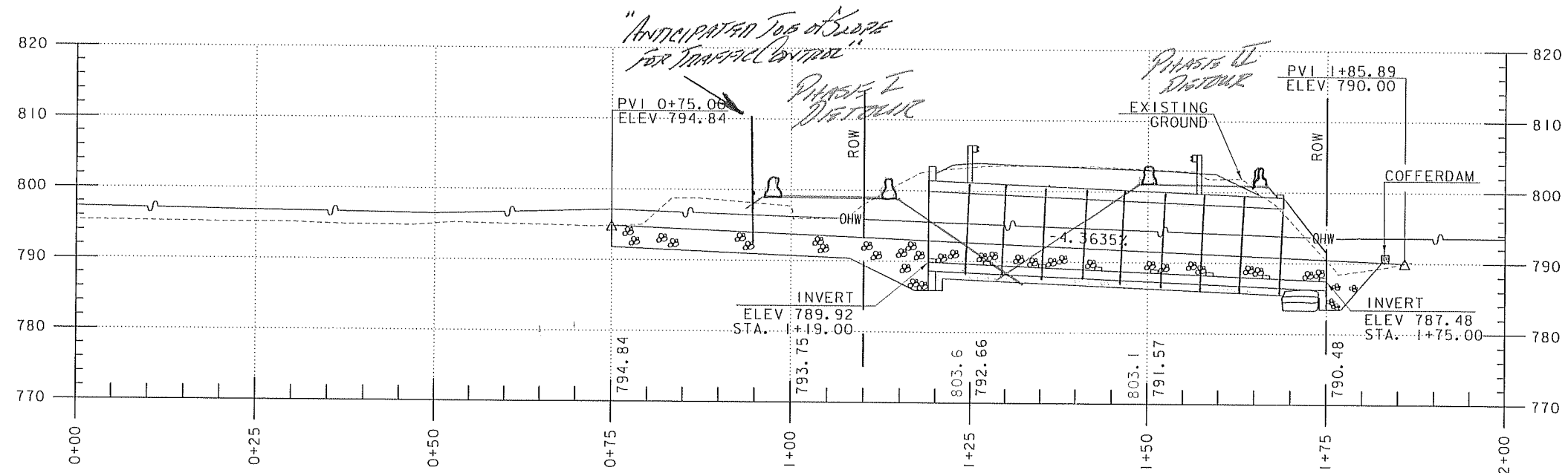
PROJECT NAME: IRASBURG  
PROJECT NUMBER: STP CULV(30)

FILE NAME: zllc266bdr\_br7.dgn  
PROJECT LEADER: M. CHENETTE  
DESIGNED BY: J. HUNGERFORD  
PLAN LAYOUT SHEET - BR7

PLOT DATE: 10/21/2014  
DRAWN BY: L. BUXTON  
CHECKED BY: M. CHENETTE  
SHEET 35 OF 55

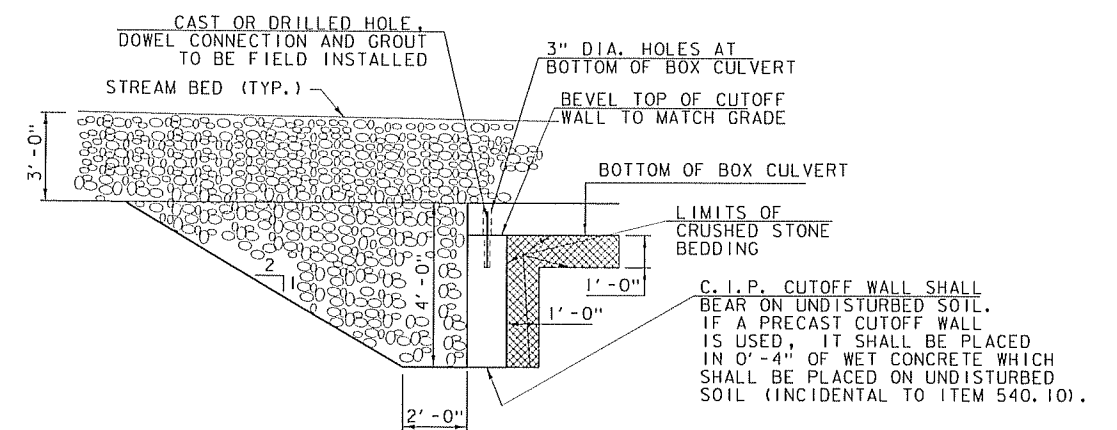
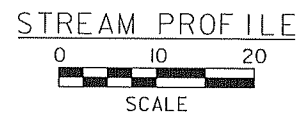




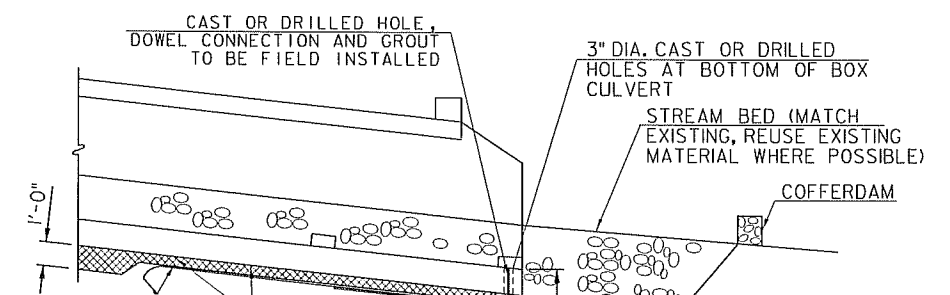
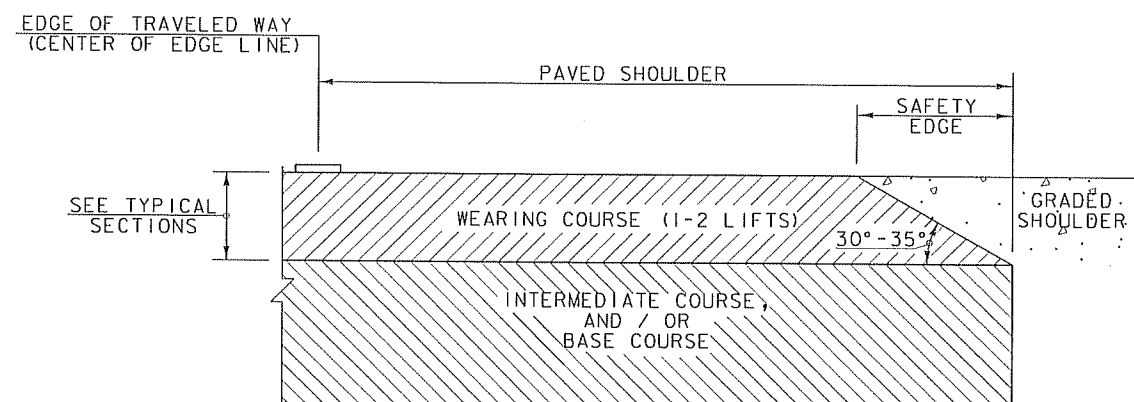


NOTE:  
ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROPOSED CENTERLINE.

ELEVATIONS SHOW TO THE NEAREST HUNDREDTH ARE FINISHED GRADE ALONG PROPOSED CENTERLINE.



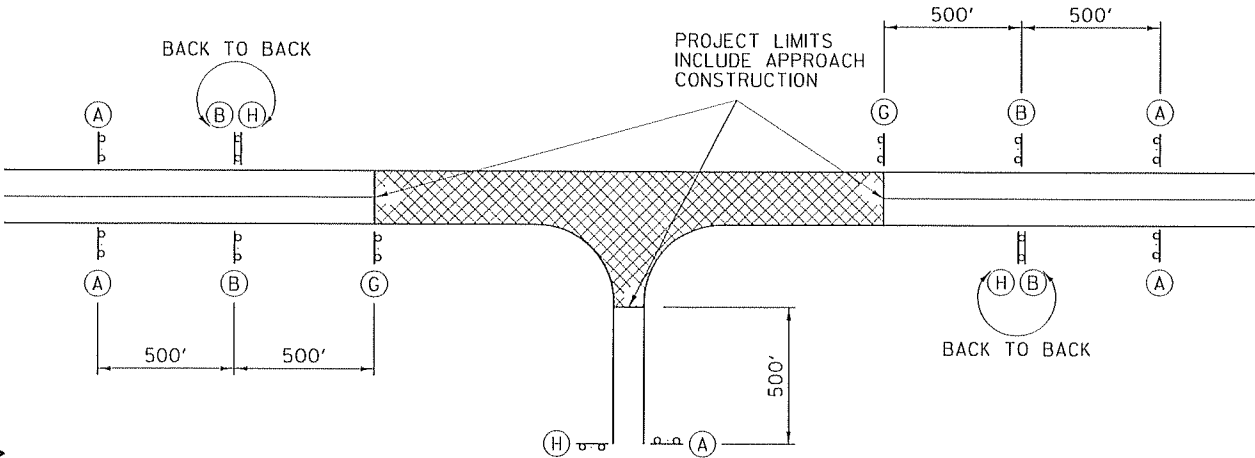
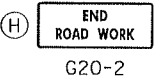
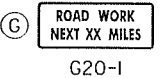
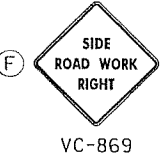
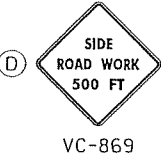
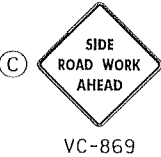
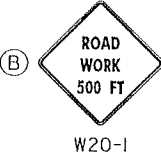
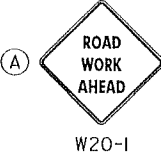
INLET CUTOFF WALL DETAIL  
NOT TO SCALE



SHEET 37 OF 55  
STREAM PROFILE - BR7

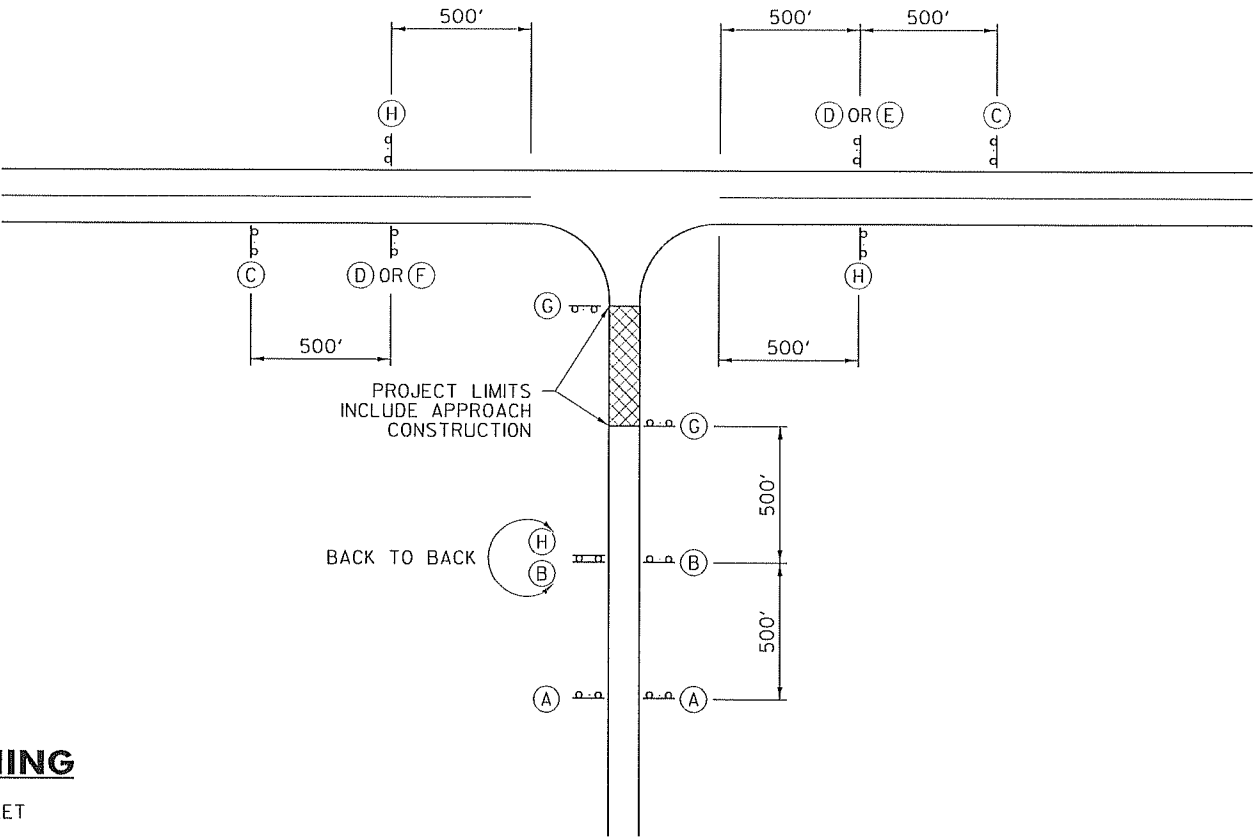


LEGEND



TYPICAL APPROACH SIGNING

FIELD CONDITIONS MAY DICTATE THE ACTUAL PLACEMENT.



SIDE ROAD APPROACH SIGNING

TO BE USED WHEN CONSTRUCTION IS UP TO 1000 FEET FROM THE INTERSECTION. FIELD CONDITIONS MAY DICTATE THE ACTUAL PLACEMENT.

GENERAL NOTES:

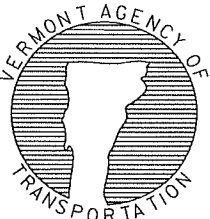
- SIGNS SHOWN ON THIS SHEET ARE INTENDED FOR USE IN PROVIDING ADVANCE WARNING AND INFORMATION ON CONSTRUCTION PROJECTS OVER WHICH TRAFFIC WILL BE MAINTAINED. WHEN ADDITIONAL APPROACH SIGNS OR OTHER TYPES OF ADVANCE SIGNING OR CONTROL ARE NECESSARY, THE PLANS AND/OR THE SPECIFICATIONS FOR THAT PROJECT WILL GIVE THE DETAILS OF THE SIGNS AND DEVICES REQUIRED. FOR ON-PROJECT CONSTRUCTION SIGNS, REFER TO APPROPRIATE STANDARD SHEETS.
- THE "ROAD WORK NEXT XX MILES" SIGN (G20-1) SHALL BE INSTALLED IN ADVANCE OF TEMPORARY TRAFFIC CONTROL ZONES THAT ARE MORE THAN TWO MILES IN LENGTH OR AS DIRECTED BY THE ENGINEER. DISTANCES SHALL BE STATED TO THE NEAREST WHOLE MILE.
- SIGNS SHALL BE LOCATED AS DETAILED ON THIS SHEET OR AS OTHERWISE SHOWN ON THE PLANS. THEY SHALL APPEAR AT EACH END OF THE HIGHWAY UNDER CONSTRUCTION AND ON ALL INTERSECTING PUBLIC HIGHWAYS. THE ENGINEER SHALL DETERMINE THE EXACT LOCATIONS.

OTHER STDS. REQUIRED: T-1, T-28

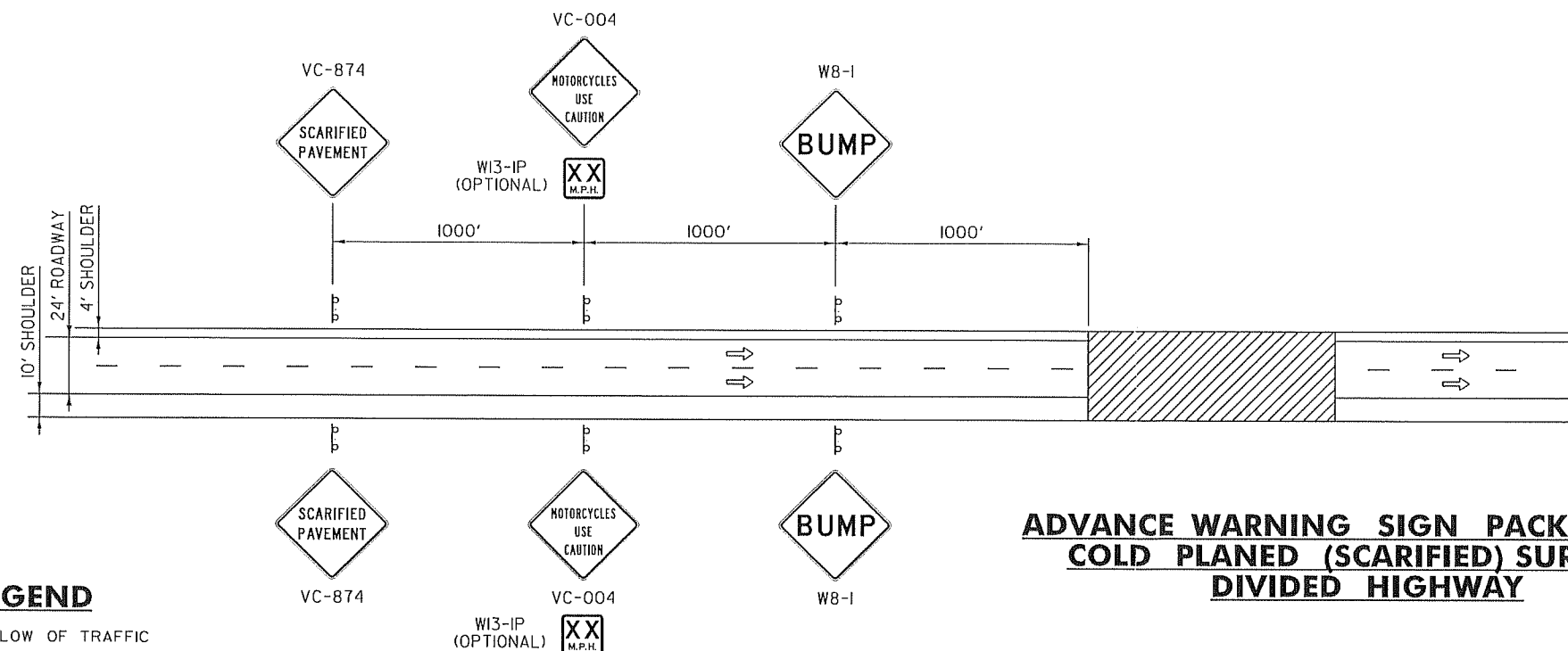
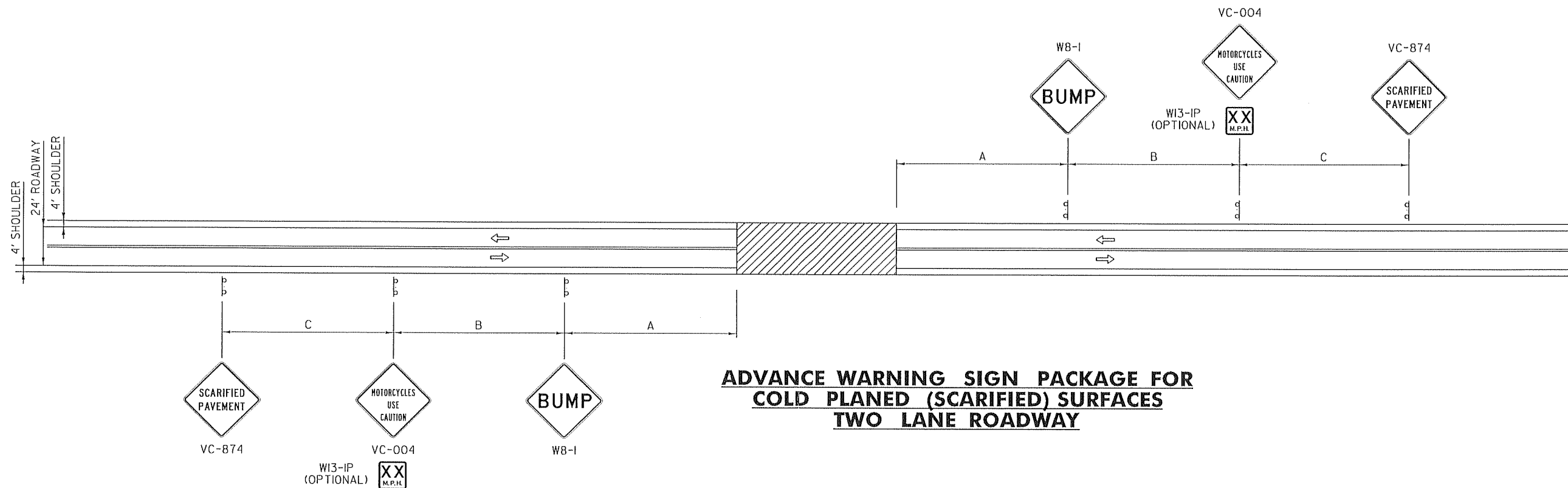
REVISIONS AND CORRECTIONS  
AUG. 6, 2012 - ORIGINAL APPROVAL DATE

APPROVED  
*Mark D. Richter*  
HIGHWAY SAFETY & DESIGN ENGINEER  
*Mark D. Richter*  
DIRECTOR OF PROGRAM DEVELOPMENT  
*Mark D. Richter*  
FEDERAL HIGHWAY ADMINISTRATION

CONVENTIONAL ROADS  
CONSTRUCTION APPROACH  
SIGNING



STANDARD  
T-10



# **LEGEND**

⇒ FLOW OF TRAFFIC  
 WORK AREA

REVISIONS AND CORRECTIONS  
 AUG. 6, 2012 - ORIGINAL APPROVAL DATE

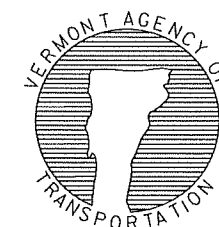
APPROVED  
 HIGHWAY SAFETY & DESIGN ENGINEER  
 DIRECTOR OF PROGRAM DEVELOPMENT  
 FEDERAL HIGHWAY ADMINISTRATION

## TRAFFIC CONTROL MISCELLANEOUS DETAILS

### **GENERAL NOTES:**

1. THE BUMP SIGN MAY BE ELIMINATED WHEN THERE IS NO BUMP. WHEN THE CONTRACTOR IS WORKING IN THE CONSTRUCTION AREA, THE APPROPRIATE ADVANCED WARNING SIGN PACKAGE SHALL BE USED. SEE THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) FOR ADDITIONAL INFORMATION.
2. GATE POSTING OF SIGNS IS AN OPTION AS DETERMINED BY THE ENGINEER FOR TWO LANE ROADWAY WHEN PASSING, TURNING OR CLIMBING LANES LIMIT VISIBILITY.
3. FOR DIMENSIONS A, B AND C, REFER TO THE MUTCD. USE TABLE 6C-1 (RECOMMENDED ADVANCE WARNING SIGN MINIMUM SPACING), FOR SIGN SPACING.

**OTHER STDS.  
 REQUIRED: T-1, T-28**



STANDARD  
 T-17